## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

## **Listing of Claims:**

## Claims 1-13. (Canceled)

14. (Currently Amended) A method for manufacturing a temperature sensor comprising the steps of:

forming at least one conductor track by a currentless deposition of a metal onto a surface of a carrier and by a subsequent thermal treatment, the carrier being a powder, which is composed of at least one of a metal oxide, a metal nitride and a metal carbide, and

connecting an evaluation device configured to measure and evaluate a temperature-dependent change in a resistance of the at least one conductor track to the at least one conductor track.

- 15. (Previously Presented) The method according to claim 14, wherein a layer thickness of a metal layer situated on the surface of the carrier is determined by at least one of a duration and a selected temperature during a thermal treatment.
  - 16. (Canceled)
- 17. (Previously Presented) The method according to claim 14, wherein the temperature sensor is situated in a layer of a laminated layer sensor.
- 18. (Previously Presented) The method according to claim 14, wherein the carrier includes at least one of aluminum oxide and zirconium dioxide.
- 19. (Previously Presented) The method according to claim 14, wherein the metal includes at least one of cobalt, nickel, copper, and platinum.
- 20. (Previously Presented) The method according to claim 14, wherein palladium nuclei are used as seed crystals for the deposition.
- 21. (Previously Presented) The method according to claim 20, wherein the palladium nuclei are initially deposited by reduction.

- 22. (Previously Presented) The method according to claim 14, wherein the thermal treatment causes the deposited metal to diffuse into an inner core of the carrier to form a boundary layer.
- 23. (Currently Amended) The method according to claim 14, wherein the carrier includes adjacent particles, and the thermal treatment causes the adjacent particles of the carrier to fuse together in a region of the metal layer.
  - 24. (Previously Presented) The method according to claim 14, further comprising: loading the at least one conductor track with an alternating current voltage.

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